## (19) World Intellectual Property Organization

International Bureau



## . I CENTO ATTURBE IN REGION DELLA REGIONALE ALL REGIONALE REGIONAL

(43) International Publication Date 6 January 2005 (06.01.2005)

PCT

## (10) International Publication Number WO 2005/000982 A1

- (51) International Patent Classification<sup>7</sup>: C09D 161/28, 161/30, C08L 97/02, B32B 5/26, B29D 31/00
- (21) International Application Number:

PCT/NL2004/000456

- (22) International Filing Date: 28 June 2004 (28.06.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03077077.0 30 June 2003 (30.06.2003) EP 03102564.6 18 August 2003 (18.08.2003) EP 60/558,142 1 April 2004 (01.04.2004) US

- (71) Applicants (for all designated States except US): DSM IP ASSESTS B.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL). DYNEA OY [FI/FI]; Snellmaninkatu 13, FIN-00170 Helsinki (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): EVERS, Lars [NL/NL]; Felix Ruttenlaan 109, NL-6132 CW Sittard (NL). BENTHEM VAN, Rudolfus, Antonius, Theodorus [NL/NL]; Sportlaan 9, NL-6141 BR Limbircht (NL). MATTHEIJ, Jozef, Maria, Johannes [NL/NL]; Vliekstraat 2, NL-6136 BG Sittard (NL). GOMEZ BUESO, Jose, Guadalupe [SE/NO]; Ullveien 12B, N-0791 Oslo (NO). VERMEULEN, Jacobus, Adriaan,

Antonius [NL/NL]; Skimmiastraat 21, NL-6163 MH Geleen (NL).

- (74) Agent: SCHELTUS, Irma; DSM Intellectual Property, P.O. Box 9, NL-6160 MA Geleen (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Published:**

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ORIENTED STRAND BOARDS

(57) Abstract: Oriented strand board (OSB), comprising a core layer and two face layers, whereby the face layers comprise an adhesive composition, wherein the adhesive composition in at least one of the face layers comprises a resin composition comprising melamine, formaldehyde, optionally urea and aromatic hydroxyl compounds, wherein the molar ratio of melamine to formaldehyde is 1:0.8-4.0, the molar ratio of melamine to urea is 1:0-2.0 and the molar ratio of melamine to aromatic hydroxyl compounds is 1:0-2.0. In a preferred embodiment, both the face layers and the core layer comprise the said adhesive composition. The OSB's according to the invention can meet the OSB/3 and even the OSB/4 requirements in the EN 300 standards.

